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Director of Training

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Director of Communications

Emergency Communications between []

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1. At a recent conference with representatives of my office, [] (OTR) representing your Office, informally requested that we initiate a preliminary study for an Emergency Communication link between []

2. It was agreed that this Office would undertake this study and provide the Office of Training with recommendations, cost estimates, informal Security reactions and other factors concerning this Emergency Communication requirement.

3. My staff has completed this study with the following detailed results:

- a. For this specified purpose, landline teletype is not recommended. Under actual Emergency conditions, this service cannot be considered reliable. In a real CRASH situation under disaster operations in the Greater Washington Area, wire communications cannot be expected to be practical for some time. Also, recurring charges for an idle line to be used for Emergency only are not desirable.
- b. Microwave and Very High Frequency is not recommended due to the limited service required. The capabilities of such equipment exceeds any likely communication demand from this source. Also, the high cost of terminal equipment and relay stations for such a microwave path is prohibitive. Two relay points would be required to cover the distances involved. With the two additional terminal points, microwave equipment costs alone would exceed \$85,000.00.
- c. A Radio Teletype circuit is recommended for this channel. Five factors favor this selection:
 - I. Most of the necessary equipment is already installed and available at the [] site. The addition of a few Radio Teletype components at the present Communications installation would permit it to function as a Radio Teletype terminal.

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II. Under extreme Disaster conditions or when Radio Teletype is not practical, the circuit can be quickly converted to Radio Telegraph (C.W.) operation.

III. The volume capabilities of a Radio Teletype Circuit will handle any likely demand after the initial Emergency that may warrant activation of this channel.

IV. The Headquarters termination for this circuit is established at the [] and no additional costs are involved at this site.

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V. Emergency Planning permits addition to an established Radio Teletype circuit operating from [] which also eliminates the need to obtain an independent frequency.

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4. Cost estimates as listed below are for the complete installation as recommended. Communications Personnel at [] are well qualified to plan and make necessary installations or additions to present equipment representing a minimum final cost. The erection of proper antennas may well be the largest problem involved.

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COST ESTIMATES

RT-4	Transmitter	1 each	1827.00
SP-600JX	Receiver	1 each	680.00
FSC-107	Converter	1 each	602.00
FSE-KFK	F/S Keyer	1 each	815.00
Mod 19	Teletype	1 each	2000.00
Mod 14 (RO)	Teletype	1 each	800.00
Trylon Towers	Antennas	4 each	868.00
Miscellaneous Supplies	Wire, Connectors etc.	Variety	408.00
			<u>8000.00</u>

5. This equipment is in stock and can be made available as required. Labor costs can be minimized by having COMMO personnel assigned to [] complete the installation.

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6. Informal talks with the Office of Security have indicated that their Office will interpose no objection to this Emergency Communication Channel. For the handling of classified material after the Communication channel is established, cryptographic material will be furnished by this Office. Emergency Communication Plan, Procedures and Test Schedules are provided for in the Signal Operating Instructions now being written.

7. If you concur in our recommendation of an RTTY channel to provide your Emergency circuit, it is requested that you advise us by return memorandum which will formalize the request. It is requested that your memorandum be routed thru the Security Office in order that we may have an indication of their formal concurrence before we proceed with implementation of the circuit arrangements.


Director of Communications

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WBS to MB:
"DA/S thinks we should go
ahead."

MB to WBS:
"So do I. Tell the
C.O. [] we are doing so."

19 MAY 1955

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